



NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
State Capitol  
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1975

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: 730001
4. Source Unit Number (from Permit to Operate): 2
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>281,196</u> (Specify Units)  Delivered Cost of fuel <u>\$5.69/Ton</u> (\$/Unit Quantity)	Type <u>NA</u> Quantity per year (Specify Units)  Delivered Cost of fuel (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	7.85 4.93 6.54	
PERCENT SULFUR Max. Min. Avg.	.98 .42 .66	
BTU PER UNIT Max. Min. Avg.	7,350 6,760 7,015	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>NA</u>		Type <u>Lignite</u>	Type <u>NA</u>
	Units <u>Tons</u>	Units <u>      </u>		Units <u>Tons</u>	Units <u>      </u>
Jan.	36,892		July	13,841	
Feb.	31,866		Aug.	14,927	
March	37,918		Sept.	40	
April	22,713		Oct.	21,213	
May	23,778		Nov.	32,731	
June	6,938		Dec.	38,340	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>NA</u> Units <u>      </u>
Maximum	56.9	-
Average	49.0	-

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 47

Days Per Week 7 Peak Season Jan. Dec.  
(Specify Months of Year)

Total Hours Per Year 5689.7 (1975)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	751*	1,179*
	4.6**	13*
Sulfur Dioxide	895	2,545
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Heskett Unit II Electrostatic Precipiator went into service July 5, 1975.

\*These quantities for period of January 1 to July 5, 1975, and based on tests run in November 1971.

\*\*These quantities for period of July 6 to December 31, 1975, and based on tests run in December 1975.

Sulfur Dioxide based on tests run in August 1972.

No tests have been run for Nitrogen Oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Asst. Manager, Power Production Phone (701) 224-3000

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Earl F. Backhaus Date July 1, 197